

Application Serial No.: 10/044,915

Attorney Docket No. 042846-0312870

In Response to Office Action mailed November 2, 2005

This listing of claims will replace all prior versions and listings of claims in the Application.

LISTING OF CLAIMS:

1. (Currently Amended) A system for enabling updates to applications on a running application server without requiring a server restart, the system comprising:

an application server that hosts one or more applications used by one or more clients;

a deployer that coordinates the timing and installation of an update to the one or more applications on the application server, the deployer further comprising:

means for determining a configuration file that assigns a priority associated with the update based on various priority criteria, the priority criteria including a type of application for which the application applies, and a magnitude of the change to the one or more applications made by the update and coordinates the update to the one or more applications on the application server based, at least in part, upon the assigned priority; and
means for controlling the timing of the installation of the update based on one or more installation criteria, the installation criteria comprising the determined priority associated with the update, and a number clients that have active sessions in the one or more applications.

2. (Previously Presented) The system of claim 1 further comprising:

a duplicate application storage space that communicates with the deployer, wherein the update to the one or more applications is first performed on the duplicate application storage space.

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3. (Currently Amended) A method for updating one or more applications ~~an application~~ on an application server, wherein the one or more applications ~~are application~~ is used by one or more client devices, and wherein the update to the one or more applications ~~are application~~ is accomplished without the need for an application server restart, the method comprising:

determining that an update is available for the one or more applications ~~application~~ on the application server;

signaling the application server that the update is available;

determining a priority ~~level~~ associated with the update, wherein the priority is based on various priority criteria, the priority criteria including a type of application for which the update applies, and a magnitude of the change to the one or more applications made by the update;

determining a timing for proceeding deciding whether to proceed with the update based on one or more installation criteria, the installation criteria comprising the determined priority associated with the update, and a number clients that have active sessions in the one or more applications, at least in part on the priority associated with for the update, and in accordance with the determined timing for proceeding with the update if the decision is to proceed;

adjusting the one or more applications ~~application~~ so that the update may proceed;

updating the one or more applications ~~application~~; and

signaling the application server when the update is complete.

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4. **(Currently Amended)** The method of claim 3 wherein the step of determining a priority associated with ~~for~~ the update further comprises:

reading the priority assigned to the update by a ~~the~~ deployer, wherein the assigned priority criteria comprise a number of users and a time of day is based, at least in part, upon a predetermined configuration.

5. **(Currently Amended)** A deployer that coordinates an update to an application running on an application server wherein the application is used by one or more clients, the deployer comprising:

means for determining a configuration file that assigns a priority to the update based on various priority criteria, the priority criteria comprising a type of application for which the application applies, and a magnitude of the change to the one or more applications made by the update; and

means for controlling the timing of the installation of the update based on one or more installation criteria, the installation criteria comprising the determined priority associated with the update, and a number clients that have active sessions in the one or more applications ~~pushes the update to the application sever based, at least in part, upon the assigned priority.~~

6. **(Currently Amended)** The deployer of claim 5 further comprising:

a poller to poll a storage location and determine whether modified application files that correspond to an update to the application exist.

7. **(Original)** The deployer of claim 5 further comprising:

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a signaler to signal the application server when the update is complete.

8. (Currently Amended) A system for enabling updates to one or more applications on a running application server without requiring a server restart, the system comprising:

application server means for serving an application for one or more clients;

deployer means for coordinating a timing and an installation of an update to the one or more applications ~~application~~ on the application server means, the deployer means further comprising:

means for determining configuration file means for assigning a priority associated with the update based on various priority criteria, the priority criteria including a type of application for which the update applies, and a magnitude of the change to the one or more applications made by the update and for coordinating the update to the application server means based, at least in part, upon the assigned priority; and

means for controlling the timing of the installation of the update based on one or more installation criteria, the installation criteria comprising the determined priority associated with the update, and a number clients that have active sessions in the one or more applications.

9. (Currently Amended) The system of claim 8 further comprising:

duplicate application storage means for communicating with the deployer means, wherein the update to the one or more applications ~~application~~ is first performed on the duplicate application storage means.

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10. (Currently Amended) A processor readable medium, having processor readable code embodied thereon, that causes a processor to update one or more applications ~~an application~~ on an application server wherein the one or more applications are ~~application is~~ used by one or more client devices ~~device~~, and wherein the update to the one or more applications are ~~application is~~ accomplished without the need for an application server restart, the processor readable medium comprising:

processor readable code for determining ~~whether~~ an update is available for the one or more applications ~~application~~ on the application server, and when an update is available:

signaling the application server that the update is available;

processor readable code for determining a priority associated with the update, wherein the priority is based on various priority criteria, the priority criteria including a type of application for which the update applies, and a magnitude of the change to the one or more applications made by the update;

processor readable code for determining a timing for proceeding ~~deciding whether to proceed~~ with the update based on one or more installation criteria, the installation criteria comprising the determined priority associated with the update, and a number clients that have active sessions in the one or more applications, at least in part on the priority associated with the update, and in accordance with the determined timing for proceeding with the update ~~if the decision is to proceed;~~

processor readable code for adjusting the application so that the update may proceed;

processor readable code for implementing the update to the application; and

processor readable code for signaling the application server when the update is complete.

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11. (Currently Amended) The processor readable medium of claim 10 wherein the processor readable code for determining a priority associated with ~~for~~ the update further comprises:

processor readable code for reading the priority assigned to the update by a the ~~the~~ deployer, wherein the priority criteria comprise a number of users, and a time of day assigned ~~priority is based, at least in part, upon a predetermined configuration.~~

12. (Currently Amended) Deployer means that coordinate an update to an application running on an application server wherein the application is used by one or more clients, the deployer means comprising:

configuration file means for assigning a priority to the update based on various ~~priority criteria, the priority criteria including a type of application for the one or more~~ applications, and a magnitude of the change to the one or more applications made by the ~~update; and~~

means for controlling the timing of the installation of the update based on one or more ~~installation criteria, the installation criteria comprising the determined priority associated with~~ the update, and a number clients that have active sessions in the one or more applications ~~pushing the update to the application sever based, at least in part, upon the assigned priority.~~

13. (Currently Amended) The deployer means of claim 12 further comprising:

polling means that polls a storage location and determines whether modified ~~application files that correspond to an update to the application exist.~~

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14. **(Original)** The deployer means of claim 12 further comprising:
 signaling means for signaling the application server when the update is complete.
15. **(Previously Presented)** The system of claim 2 wherein the duplicate application storage space is a mirror server.
16. **(Currently Amended)** The system of claim 1 wherein the priority criteria comprise a number of users and a time of day ~~is based at least in part on the type of application.~~
17. **(Previously Presented)** The method of claim 3 wherein determining that an update is available further comprises:
 polling a storage location to check for the presence of an update.
18. **(Currently Amended)** The method of claim 3 wherein the priority ~~level~~ is one of a high, medium, or low priority.
19. **(Currently Amended)** The method of claim 18 wherein the priority ~~level~~ is high and wherein adjusting the application so that the update may proceed further comprises:
 halting the application.
20. **(Currently Amended)** The method of claim 18 wherein the priority ~~level~~ is medium and wherein adjusting the application so that the update may proceed further comprises:

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preventing access to the application by a client device that is not currently using the application; and

halting the application when one or more client devices that are currently using the application terminate the application.

21. **(Currently Amended)** The method of claim 18 wherein the priority level is low and wherein adjusting the application so that the update may proceed further comprises:

halting the application when no client device is using the application.